Serial No.: 10/016,416 Filed: December 10, 2001

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of all claims in the application.

Listing of Claims

- 1-17. (canceled)
- 18. (currently amended) A composition comprising:
- a) a substrate comprising an array of working electrodes, wherein each electrode comprises a first binding ligand;
 - b) a plurality of colloids, each comprising:
 - i) a second binding ligand; and
 - ii) an electron transfer moiety: and
- c) a detector capable of detecting a voltage associated with electron transfer from said electron transfer moiety.
- 19. (canceled)
- 20. (previously presented) The composition of claim 18 wherein said plurality of colloids further comprise a self-assembled monolayer.
- (previously presented) The composition of claim 20 wherein said self-assembling monolayer comprises an alkyl chain.
- 22. (previously presented) The composition of claim 18 wherein said substrate is a printed circuit board.
- 23. (previously presented) The composition according to claim 18 wherein said electrodes are gold.
- 24. (previously presented) The composition according to claim 18 wherein said electron transfer moiety is a transition metal complex.
- 25 (previously presented) The composition according to claim 24 wherein said transition metal complex is ferrocene.
- 26: (withdrawn) The composition according to claim 18 wherein said ETM is an organic ETM.
- 27. (previously presented) The composition according to claim 18 wherein said first binding ligand is a first nucleic acid and said second binding ligand is a second nucleic acid.